

SELECTED CLIMATIC DATA FOR OMSKG/I 246
17 January 1958

Selected climatic data for the city of Omsk are presented in tabular form below. Some data are available for each of four stations in the immediate vicinity of Omsk. The first (344 feet above sea level) is in a wooded site at an experimental field (opytnoye pole) on the northwestern outskirts of the city; the second (397 feet) lies on the open steppes 3 or 4 miles north of the center of the city; the third (285 feet) is at the center itself; and the fourth (308 feet) is located at an airport on the southeast edge of the city.

In the following tables, data on wind direction and the number of calms are for the station at the center of the city. Average and average minimum temperatures are given for all four stations. All other data are for the experimental field station only.

Wind direction is expressed as the proportion of the month during which the wind blows from each of the 8 major compass directions. Similarly, wind velocity in meters per second is shown as the proportion of the month during which the wind blows at speeds within each of five selected categories (Table I). The anemometer used to measure wind velocity is located 36 feet above the surface of the ground.

Air temperatures in the following table are expressed in degrees Centigrade. Although absolute minimum temperatures are given, the maximums are not absolute but rather the highest temperatures recorded at the time of one of the regular daily observations.

Precipitation is given in millimeters. Data on heaviest and lightest precipitation are not available for the first three and last two months of the year (Table II).

Climatic data for the Omsk area are also given in the US Climatological Data Sheet, WAC 163, Area 1, 23 July 48. These data are, however, considerably older and somewhat less precise than those presented here.

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Climatic Data For Omsk

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Year</u>
<u>Wind</u>													
<u>Direction (frequency in %)</u>													
N	5	4	6	9	12	16	16	16	8	7	5	4	9
NE	4	5	6	5	6	9	10	6	5	3	3	4	6
E	8	11	10	9	7	5	9	6	6	3	5	8	7
SE	10	10	8	7	8	9	8	8	8	6	8	10	8
S	19	22	19	15	16	14	13	14	19	20	20	19	17
SW	27	22	24	21	17	11	11	13	18	23	27	25	21
W	20	20	20	23	19	20	17	22	24	27	22	22	21
NW	7	6	7	11	15	16	16	15	12	11	10	8	11
<u>Velocity (frequency in %)</u>													
0 - 1 m/sec	52.2	52.6	56.0	47.7	43.4	48.0	49.1	46.0	47.2	41.5	42.6	48.4	
2 - 5 m/sec	38.2	36.3	34.0	35.1	39.2	40.2	40.0	43.8	40.1	42.0	41.6	39.7	
6 - 10 m/sec	7.4	8.0	8.3	11.4	13.2	9.5	9.6	9.0	10.4	14.0	12.2	9.8	
11 - 15 m/sec	1.4	2.0	1.0	1.7	2.5	1.6	0.8	0.6	1.6	1.5	2.8	1.3	
< 15 m/sec	0.6	1.2	0.8	1.2	1.6	0.7	0.6	0.7	0.7	1.1	0.8	0.8	
<u>Number of Calms</u>	11	15	21	19	13	11	15	15	16	14	9	11	170

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Climatic Data For Onak

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Year</u>
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Air Temperature (°C)

<u>Average</u>	-19.1	-18.1	-11.3	0.2	10.6	16.6	18.9	15.9	10.3	1.6	-8.6	-16.5	0.0
<u>Experimental field</u>	-19.3	-18.5	-11.9	-0.1	10.4	16.2	18.4	15.5	10.0	1.2	-8.9	-16.8	-0.3
<u>Steppe</u>	-18.9	-17.6	-11.1	0.5	11.2	17.1	19.5	16.5	10.8	1.8	-8.5	-16.3	0.4
<u>City</u>	-19.2	-18.2	-11.6	0.4	10.8	16.7	18.9	16.1	10.5	1.7	-8.6	-16.3	0.1
<u>Airport</u>													
<u>Average Minimum</u>	-24.1	-22.9	-17.0	-5.0	4.3	10.7	13.0	10.6	4.8	-2.3	-12.2	-21.1	-5.1
<u>Experimental field</u>	-24.5	-23.6	-17.7	-5.3	3.8	9.9	12.0	9.7	4.2	-2.8	-12.4	-21.5	-5.7
<u>Steppe</u>	-24.1	-22.9	-17.0	-4.7	4.6	11.0	13.2	11.2	5.2	-2.1	-12.0	-21.1	-4.9
<u>City</u>	-24.9	-23.2	-16.8	-5.3	4.3	10.7	14.0	10.6	4.7	-2.4	-11.8	-21.0	-5.1
<u>Airport</u>													
<u>Absolute Minimum</u>	-50	-46	-41	-25	-11	-1	2	-2	-8	-26	-38	-45	-50
<u>Maximum (based on 3 or 4 observations per day)</u>	3	3	10	29	34	38	40	37	30	25	14	2	40

Precipitation (mm)

<u>Average</u>	12	8	10	17	28	56	70	53	34	22	17	14	34.1
<u>Experimental field</u>	-	-	-	46	57	113	106	121	57	58	-	-	-
<u>Steppe</u>	-	-	-	1	6	11	21	7	9	4	-	-	-
<u>City</u>													
<u>Airport</u>													